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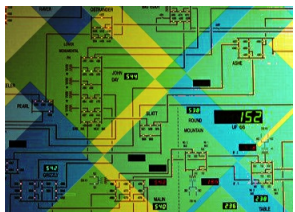


STAT OF THE WEEK


Stat of the Week: 0.2 Percent




Can Agriculture Go Urban?







In Smart Grid, Mesh Moves From Lead Role to Team Player





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RESEARCH & ANALYSIS | GRID OPTIMIZATION
 ANDRES CARVALLO AND JOHN COOPER: JULY 20, 2011

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Guest Post: The Past and Future of Smart Grid



Andres Carvallo and John Cooper, who together played an instrumental role in the Pecan Street Project, have released a new book on where smart grid is going.



On March 5, 2004, **Andres Carvallo** defined the smart grid as follows: "The smart grid is the integration of an **electric grid**, a communications network, software, and hardware to monitor, control, and manage the creation, distribution, storage and consumption of energy. The smart grid of the future will be distributed, it will be interactive, it will be self-healing, and it will communicate with every device."

He also defined an advanced smart... [Read More](#)

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Scientific Conservation Founder Jumps to Serious Energy


John Pitcher, the building management guru, leaves for competition. So does VP of sales Chip Pieper.




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 Thursday, July 21, 2011
 2:00 pm ET/11:00 am PT




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U.S. Solar Market Insight
 November 16 – 17, 2011





John Pitcher, the founder of Scientific Conservation Inc. (SCI) and one of the more prominent experts in energy management, has left the company to join Serious Energy, according to sources.

Vice president of sales Chip Pieper has also left.

The sudden departure of Pitcher is clearly a coup for Serious, which has repositioned itself as a building management company, and will likely raise questions about what, if anything, is going on at... [Read More](#)

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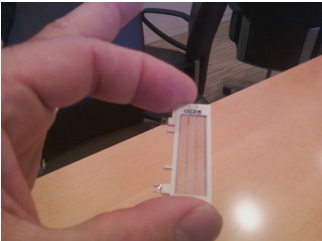


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Ions, Tornadoes and Liquids: Are They the Key To LEDs?

Heat is murder.



It's a fan with no moving parts is how **Ventiva** CEO Carl Schlachte describes his company's cornerstone product.

Ventiva has come up with a wire grid that effectively cools light emitting diodes, solid state lights and other electronic components in a way that can be considered both active and passive. It works as follows. A small charge is applied to some of the wires in Ventiva's mesh. This creates ions in the

localized atmosphere. The ions... [Read More](#)

Chatterbox



Bob, as far as the "inverter anomaly" goes, you are choosing... says glenn doty about **Stat of the Week: 0.2 Percent**



The propaganda push behind nuclear power to make it acceptable... says james leary about **Scientific Conservation Founder Jumps to Serious Energy**



it took me roughly few minute to find this post,thanks a ton.... says alejandrophes smith about **Scientific Conservation Founder Jumps to Serious Energy**



Bankability? How about profitability? says tesla_x about **The Solar Industry's Biggest Problem**



If you are just moving flat panels, five degree accuracy is actually... says omega c about **\$100,000 for 19-Year-Old Solar Savant**



Online UPS provides best quality power protection to significant... says farzina sahin about **Will Inverters Compete With Storage? Will They Take Over the Grid?**



I'm new to all this but very interested. I find improving upon... says novice about **\$100,000 for 19-Year-Old Solar Savant**



An ion engine as a heat 'sink' (or wick as the case may be?)....cool.... says tesla_x about **Ions, Tornadoes and Liquids: Are They the Key To LEDs?**



Out of all of these investments they all look like losers except... says analyst about **An Interview With NEA General Partner Scott Sandell**



Nicely put. says mike about **The Solar Industry's Biggest Problem**

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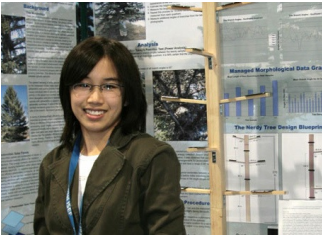
The Solar Industry's Biggest Problem



Bankability is a four-letter word. [Read More](#)

\$100,000 for 19-Year-Old Solar Savant

What would you have done with \$100,000 when you were 19 years old?



Edén Full is the 19 year-old Canadian founder of the nerdically named Roseicollis Technologies, a very early-stage solar tracker idea that was granted \$100,000 by **PayPal co-founder and early Facebook investor Peter Thiel**.

As you might have heard, Thiel has begun a "20 Under 20" grant program for young entrepreneurs through his **Thiel Fellowship program**.

Edén Full is a mechanical engineering undergrad at Princeton University with a... [Read More](#)

PERSPECTIVES | SOLAR FINANCE & VC
MICHAEL KANELLOS: JULY 19, 2011

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The Solar Industry's Biggest Problem

Bankability is a four-letter word.



Although the solar industry continues to grow, it still occupies only a tiny fraction of the overall energy mix. In the U.S. only **130,000 homes** have solar arrays.

What's holding it up? Some blame the high cost of the technology. Others point at the see-saw nature of tax incentives.

Personally, I blame **banks**. If you want to build a utility-scale solar farm today in the U.S. you might be lucky to get money at 9 percent to 11 percent,... [Read More](#)

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ERIC WESOFF: JULY 19, 2011

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Leak: Apple iPhone Alums Go After Home Thermostats

It's smartly designed, has one button, and is terrible at making phone calls. From the people who brought you the iPhone.



Last month **Michael Kanellos unearthed the founding of Nest Labs**, a stealthy home networking technology firm with an Apple iPhone lineage. We just received an anonymous tip with a screenshot of the staff and a picture of the thermostat device.

The leader of the firm is listed as Tony Fadell, the father of Apple's iPod and a contributor to the iPhone. **Fadell's most**

recent LinkedIn role lists him as advisor to the CEO at Apple. Fadell had... [Read More](#)

JULY 18, 2011

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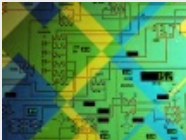
Video: A Chat With Nevada Governor Brian Sandoval

RESEARCH & ANALYSIS



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INDUSTRY PRESS RELEASES

Energizing the Future: July 19, 2011

ESA Renewables Begins Contract Negotiations for up to 65MW at Intersolar North America: July 19, 2011

Thermotron SE-3300 Test Chamber Accommodates PV Panels Exceeding 6 Feet Long: July 19, 2011

LDK Solar Signs Supply Contract With juwi GmbH: July 19, 2011

He's Republican. And he's recruiting green companies to come to the state. Is this how the political divide over energy gets patched up?

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MICHAEL KANELLOS: JULY 18, 2011

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Former First Solar CEO Starts VC Fund

\$300 million for early-stage companies



Michael Ahearn, who stepped down as the First Solar CEO in 2009, has re-emerged.

Ahearn is behind True North Venture Partners, which will invest in early-stage energy, waste, water and food startups. While energy has garnered billions from VCs, those other sectors have lagged somewhat. The picture, however, has begun to change, and recycling is **shaping up to be a growth market**. The world, meanwhile, is expected to endure **rising food prices**... [Read More >](#)

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ERIC WESOFF: JULY 18, 2011

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Soitec Raises More Than \$100M for CPV

CPV is a niche market—a potential gigawatt-scale niche market.



The CPV market is seeing great cause for optimism these days. We've covered recent funding for GreenVolts, **Semprius**, and Morgan Solar and the **positive environmental verdict here**. We've also covered new projects from Soitec, **Amonix**, and **SolFocus**.

One of the leading CPV players, Soitec, has raised a \$212 million "capital increase" of which half to two-thirds will be devoted to the CPV efforts of the public firm, according to Hans-Joerg... [Read More >](#)

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Michael Porter Should Be Happy
Rob Day July 13, 2011, 9:08am

It'll Get Better
Rob Day July 11, 2011, 6:52pm

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Soltas and the Superhuman Solar Installer League



Can a holding company turn local installers into a 1 GW powerhouse?
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Mixed Greens: SeaMicro Unfurls More Servers, GE Links With Lowe’s on EVs, and More

Plus, notes on rare earth exports from Molycorp; happy birthday to John Glenn



The number of the day is 768.

That is the number of processor cores that SeaMicro has managed to cram into its latest server, boosting its compute-per-watt figure by 20 percent. The elegantly named SM 10000-64HD contains 384 dual-core Intel Atom processors and is the third server from SeaMicro. The last server from the company contained 512 cores, or 256 dual-core Atoms.

SeaMicro’s servers **consume less than 1/4th the power and take up far...** [Read More](#)

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